

10082570_CLS

Most Frequently Occurring Classifications of Patents Returned
From A Search of 10082570 on February 10, 2003

Original Classifications

7	367/41
5	702/14
4	367/48
3	367/21
2	367/190
2	367/39
2	367/40
2	367/49
2	367/73

Cross-Reference Classifications

7	367/41
6	702/14
5	367/23
5	702/17
4	367/190
4	367/38
4	367/43
4	367/46
3	181/113
3	367/189
3	367/42
3	367/47
3	367/49
3	702/16
2	181/108
2	181/111
2	181/114
2	367/48
2	367/63

Combined Classifications

14	367/41
11	702/14
6	367/190
6	367/48
6	702/17
5	367/23
5	367/38
5	367/43
5	367/46
5	367/49
4	367/189

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4 367/21
4 367/42
3 181/113
3 367/39
3 367/40
3 367/47
3 367/73
3 702/16
2 181/108
2 181/111
2 181/114
2 367/56
2 367/63
2 367/75
2 702/18

10082570_CLSTITLES
Titles of Most Frequently Occurring Classifications of Patents Returned
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From A Search of 10082570 on February 10, 2003

- 14 367/41 (7 OR, 7 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/38 ..Signal analysis and/or correction
367/41 ...Transmitted correlation
- 11 702/14 (5 OR, 6 XR)
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR
TESTING
702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
702/2 .Earth science
702/14 ..Seismology
- 6 367/190 (2 OR, 4 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/140 SIGNAL TRANSDUCERS
367/189 .Vibrator-type transmitter
367/190 ..With feedback control
- 6 367/48 (4 OR, 2 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/38 ..Signal analysis and/or correction
367/48 ...Phase
- 6 702/17 (1 OR, 5 XR)
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR
TESTING
702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
702/2 .Earth science
702/14 ..Seismology
702/17 ...Filtering or noise reduction/removal
- 5 367/23 (0 OR, 5 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/15 .Offshore prospecting

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367/21 ..Signal processing
367/23 ...Controlled source signalling

5 367/38 (1 OR, 4 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/37 .Land-reflection type

367/38 ..Signal analysis and/or correction

5 367/43 (1 OR, 4 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/37 .Land-reflection type

367/38 ..Signal analysis and/or correction

367/43 ...Filters

5 367/46 (1 OR, 4 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/37 .Land-reflection type

367/38 ..Signal analysis and/or correction

367/43 ...Filters

367/46Inverse filters

5 367/49 (2 OR, 3 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/37 .Land-reflection type

367/38 ..Signal analysis and/or correction

367/49 ...Frequency

4 367/189 (1 OR, 3 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/140 SIGNAL TRANSDUCERS

367/189 .Vibrator-type transmitter

4 367/21 (3 OR, 1 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/15 .Offshore prospecting

367/21 ..Signal processing

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4 367/42 (1 OR, 3 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/37 .Land-reflection type

367/38 ..Signal analysis and/or correction

367/42 ...Standard correlation

3 181/113 (0 OR, 3 XR)

Class 181 : ACOUSTICS

181/101 GEOPHYSICAL OR SUBSURFACE EXPLORATION

181/113 .Seismic wave generation

3 367/39 (2 OR, 1 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/37 .Land-reflection type

367/38 ..Signal analysis and/or correction

367/39 ...Random signal correlation

3 367/40 (2 OR, 1 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/37 .Land-reflection type

367/38 ..Signal analysis and/or correction

367/40 ...Received correlation

3 367/47 (0 OR, 3 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/37 .Land-reflection type

367/38 ..Signal analysis and/or correction

367/47 ...Amplitude

3 367/73 (2 OR, 1 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/37 .Land-reflection type

367/73 ...Synthetic seismograms and models

3 702/16 (0 OR, 3 XR)

Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR TESTING

702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT

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702/2 .Earth science
702/14 ..Seismology
702/16 ...Specific display system (e.g., mapping, profiling)

2 181/108 (0 OR, 2 XR)
Class 181 : ACOUSTICS
181/101 GEOPHYSICAL OR SUBSURFACE EXPLORATION
181/108 .Seismic source and detector

2 181/111 (0 OR, 2 XR)
Class 181 : ACOUSTICS
181/101 GEOPHYSICAL OR SUBSURFACE EXPLORATION
181/108 .Seismic source and detector
181/111 ..Plural sources

2 181/114 (0 OR, 2 XR)
Class 181 : ACOUSTICS
181/101 GEOPHYSICAL OR SUBSURFACE EXPLORATION
181/113 .Seismic wave generation
181/114 ..Vehicle-mounted

2 367/56 (1 OR, 1 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/38 ..Signal analysis and/or correction
367/56 ...Particular source-receiver array

2 367/63 (0 OR, 2 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/38 ..Signal analysis and/or correction
367/59 ...Compositing system
367/63With preliminary signal processing

2 367/75 (1 OR, 1 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/75 ..Shear wave

2 702/18 (1 OR, 1 XR)
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR

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TESTING
702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
702/2 .Earth science
702/14 ..Seismology
702/18 ...Velocity of seismic wave

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Titles of Most Frequently Occurring Classifications of Patents Returned
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14 367/41 (7 OR, 7 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/38 ..Signal analysis and/or correction
367/41 ...Transmitted correlation

11 702/14 (5 OR, 6 XR)
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR
TESTING
702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
702/2 .Earth science
702/14 ..Seismology

6 367/190 (2 OR, 4 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/140 SIGNAL TRANSDUCERS
367/189 .Vibrator-type transmitter
367/190 ..With feedback control

6 367/48 (4 OR, 2 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/38 ..Signal analysis and/or correction
367/48 ...Phase

6 702/17 (1 OR, 5 XR)
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR
TESTING
702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
702/2 .Earth science
702/14 ..Seismology
702/17 ...Filtering or noise reduction/removal

5 367/23 (0 OR, 5 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/15 .Offshore prospecting

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367/21 ..Signal processing

367/23 ...Controlled source signalling

5 367/38 (1 OR, 4 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/37 .Land-reflection type

367/38 ..Signal analysis and/or correction

5 367/43 (1 OR, 4 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/37 .Land-reflection type

367/38 ..Signal analysis and/or correction

367/43 ...Filters

5 367/46 (1 OR, 4 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/37 .Land-reflection type

367/38 ..Signal analysis and/or correction

367/43 ...Filters

367/46Inverse filters

5 367/49 (2 OR, 3 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/37 .Land-reflection type

367/38 ..Signal analysis and/or correction

367/49 ...Frequency

4 367/189 (1 OR, 3 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/140 SIGNAL TRANSDUCERS

367/189 .Vibrator-type transmitter

4 367/21 (3 OR, 1 XR)

Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE SYSTEMS AND DEVICES

367/14 SEISMIC PROSPECTING

367/15 .Offshore prospecting

367/21 ..Signal processing

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4 367/42 (1 OR, 3 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/38 ..Signal analysis and/or correction
367/42 ...Standard correlation

3 181/113 (0 OR, 3 XR)
Class 181 : ACOUSTICS
181/101 GEOPHYSICAL OR SUBSURFACE EXPLORATION
181/113 .Seismic wave generation

3 367/39 (2 OR, 1 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/38 ..Signal analysis and/or correction
367/39 ...Random signal correlation

3 367/40 (2 OR, 1 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/38 ..Signal analysis and/or correction
367/40 ...Received correlation

3 367/47 (0 OR, 3 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/38 ..Signal analysis and/or correction
367/47 ...Amplitude

3 367/73 (2 OR, 1 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/73 ..Synthetic seismograms and models

3 702/16 (0 OR, 3 XR)
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR
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702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT

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702/2 .Earth science
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2 181/111 (0 OR, 2 XR)
Class 181 : ACOUSTICS
181/101 GEOPHYSICAL OR SUBSURFACE EXPLORATION
181/108 .Seismic source and detector
181/111 ..Plural sources

2 181/114 (0 OR, 2 XR)
Class 181 : ACOUSTICS
181/101 GEOPHYSICAL OR SUBSURFACE EXPLORATION
181/113 .Seismic wave generation
181/114 ..Vehicle-mounted

2 367/56 (1 OR, 1 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/38 ..Signal analysis and/or correction
367/56 ...Particular source-receiver array

2 367/63 (0 OR, 2 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/38 ..Signal analysis and/or correction
367/59 ...Compositing system
367/63With preliminary signal processing

2 367/75 (1 OR, 1 XR)
Class 367 : COMMUNICATIONS, ELECTRICAL: ACOUSTIC WAVE
SYSTEMS AND DEVICES
367/14 SEISMIC PROSPECTING
367/37 .Land-reflection type
367/75 ..Shear wave

2 702/18 (1 OR, 1 XR)
Class 702 : DATA PROCESSING: MEASURING, CALIBRATING, OR

10082570_CLSTITLES
TESTING
702/1 MEASUREMENT SYSTEM IN A SPECIFIC ENVIRONMENT
702/2 .Earth science
702/14 ..Seismology
702/18 ...Velocity of seismic wave

10082570_EAST

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4823326
5410517
6418079
4344158
6148264
5991235
4630242
5241513
4768174
4809235
5550786
5703833
5715213
5822269
5933790
6166994
6430510
4982374
4799201
4782446
6016462
4613980
4628493
4864546
5231251
5243469
6493634
6049507
4369507
5400299
4339810
4458339
4564927
4899321
4922472
5050129
5640368
6151556
4855967
5719821
5721710
4616352
4758997
4419760
5293116
5621767
6316928

10082570_EAST

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10082570_LIST
PLUS Search Results for S/N 10082570, Searched February 10, 2003

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5410517
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4344158
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4809235
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5822269
5933790
6166994
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4982374
4799201
4782446
6016462
4613980
4628493
4864546
5231251
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6493634
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4616352
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10082570_LIST

5621767
6316928
6388360
4969129

10082570_QUAL

4314364 90
4823326 88
5410517 88
6418079 88
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6151556 73
4855967 74
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5721710 72
4616352 71
4758997 71
4419760 69
5293116 69
5621767 69
6316928 69

10082570_QUAL

6388360 69
4969129 69

about 1
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acquisition 1
actual 1
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additional 2
addressed 2
addresses 2
addressing 1
advantages 2
after 5
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al 1
all 2
alternatively 1
alternatives 1
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ambient 6
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andersen 1
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angles 2
any 3
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appended 1
application 1
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as 6
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assure 1
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attenuated 3
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bacon 1
based 2

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being 2
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between 2
boundary 1
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but 1
by 15
called 1
can 8
cascaded 8
cascading 2
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caused 1
certain 1
changed 1
chirp 4
circumstances 1
claims 2
coherent 6
combined 1
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comparing 1
comparison 1
compnsing 1
compress 1
compresses 1
compression 2
comprising 3
concatenating 2
concurrent 1
concurrently 2
connection 1
consecutive 2
constant 1
containing 1
contaminated 1
contrary 1
control 2
controlled 1
conventional 1
correlated 1
correlation 4
correllation 1
correspond 1

corresponding 2
cover 1
crossfeed 4
data 44
deconvolution 4
decreasing 1
deeper 1
defined 1
degrees 1
delineate 1
demonstrates 1
denoised 1
depends 1
deposits 1
derived 3
described 1
descript 1
description 2
desired 1
detailed 3
determined 2
determining 1
developed 1
development 1
differ 1
difference 4
different 4
directed 1
directly 1
disclosed 3
discloses 1
discussed 1
distinguishing 1
distortion 5
downsweep 1
drawings 2
due 1
during 1
dynamite 1
each 8
earth 3
edington 1
effectiveness 1
either 1
emanating 1
embodiments 2
emitted 1
employed 1

end 4
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ensure 1
environment 1
equivalents 1
estimate 1
estimates 1
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even 1
events 2
example 1
exceeding 1
exceeds 1
except 1
exploration 2
explosive 1
extracted 1
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figure 9
filed 1
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first 4
flowchart 1
following 2
for 18
form 2
fraction 1
frequency 10
from 19
fundamental 1
generally 1
generated 6
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generating 1
geophysical 1
ghosts 1
giving 1
guns 1
hannonic 1
harmonic 17
harmonics 4
has 1
have 1
having 2
herein 1
highest 3
highly 1
how 1

however 1
ib 1
ic 1
identical 1
if 3
ii 1
illustrates 7
image 1
images 1
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impart 1
imparted 1
implosive 1
improving 1
impulses 1
impulsive 1
in 29
include 1
included 1
includes 1
including 2
incorporated 1
increasing 1
increment 1
indicate 1
industry 1
initial 4
intended 1
interfere 1
interference 1
into 2
invention 16
inverse 1
ion 1
ir 1
is 37
it 2
its 2
khan 1
known 2
la 2
landrum 1
layers 1
lb 1
ld 1
like 1
likely 1
limited 1

linked 3
linking 1
listen 5
long 1
low 2
manifesting 1
manner 1
many 1
martin 1
mask 1
may 10
means 1
method 24
methods 2
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mineral 1
misleading 1
modern 1
modifications 1
modified 1
more 3
most 1
much 1
multiple 3
nature 1
need 1
new 1
no 3
noise 22
none 1
nonlinear 1
not 3
nth 1
number 5
october 1
of 71
on 5
one 7
only 3
operated 2
operating 1
operators 1
or 16
order 4
original 4
other 3
output 2
panel 6

particularly 1
pat 3
patent 3
period 1
permit 1
persons 1
phase 14
phased 1
phases 1
pilot 1
plurality 8
portion 2
position 3
positioned 1
predetermined 2
preferred 2
present 7
previous 1
prior 1
problem 1
problems 2
processed 1
processing 5
produce 1
produces 1
progressively 1
prospecting 1
provided 1
provides 2
providing 1
random 1
range 1
ratio 1
readily 1
receiver 1
record 2
recorded 2
recording 1
records 4
reduced 1
reducing 1
reference 2
referring 1
reflection 4
reflective 1
reflectors 1
refraction 2
reitsch 1

related 1
relative 1
relatively 2
relies 1
remaining 2
removal 4
removed 3
removing 1
replaced 1
replacing 1
represent 1
representative 1
resolution 1
resolve 1
results 1
rotated 1
said 5
same 2
scope 1
second 3
seconds 1
segment 12
segments 15
seismic 22
selected 4
separate 1
separately 1
separating 1
separation 3
sequence 15
sequences 1
serial 1
series 3
shifted 3
shifting 3
shortened 1
shorter 1
showing 4
signal 13
signals 12
significant 1
simultaneously 3
single 3
skilled 1
so 1
some 1
sonic 1
source 23

sources 13
spirit 1
stacked 2
stacking 1
statistical 1
step 1
structure 2
substantially 2
subsurface 4
succeeding 1
such 3
sufficient 2
summary 1
superposition 1
suppress 2
suppressed 1
suppressing 2
suppression 1
surfaces 1
surveys 1
sweep 31
sweeps 8
swept 7
system 1
target 4
technique 1
techniques 1
telates 1
than 1
that 10
the 114
then 1
there 1
thereto 1
these 3
this 7
threshold 1
time 4
timeconsuming 1
times 3
to 44
together 2
transformed 1
travel 2
type 3
underlying 1
understood 3
undesirable 1

10082570_WDS

unwanted 1
up 2
upon 1
upsweep 1
us 7
used 9
uses 2
using 8
utilize 1
valuable 1
vanphase 2
variations 1
variphase 1
varying 1
vertical 1
very 1
vibrational 2
vibrations 2
vibrator 5
vibrators 2
vibratory 3
ward 2
was 1
waveform 1
wavefronts 1
wavelets 1
waves 1
weak 1
well 2
when 2
where 1
wherein 1
which 10
while 2
will 4
window 4
with 15
within 4

10082570 WEST

(4314364 4823326 5410517 6418079 4344158 6148264 5991235 4630242 52415
13 4768174 4809235 5550786 5703833 5715213 5822269 5933790 6166994 643
0510 4982374 4799201 4782446 6016462 4613980 4628493 4864546 5231251 5
243469 6493634 6049507 4369507 5400299 4339810 4458339 4564927 4899321
4922472 5050129 5640368 6151556 4855967 5719821 5721710 4616352 47589
97 4419760 5293116 5621767 6316928 6388360 4969129).pn.